

Patent
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IN THE CLAIMS:

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1 1. (Original) A glass bulb for a cathode-ray tube comprising: a panel unit having a
2 panel screen; a neck unit holding an electron gun; and a funnel unit having a funnel-like shape,
3 wherein the panel unit and the neck unit are bridged by the funnel unit, wherein
4 the funnel unit is formed from a plurality of glass members, the plurality of glass
5 members including at least a first glass member on a side of the panel unit and a second glass
6 member on a side of the neck unit, and
7 a maximum-to-minimum thickness ratio of each of the plurality of glass members
8 is designed to be within a range suitable for producing the plurality of glass members using
9 pressing, the maximum-to-minimum thickness ratio being a ratio of thickness of a thickest
10 portion to thickness of a thinnest portion.

1 2. (Original) The glass bulb of claim 1,
2 wherein the plurality of glass members are prepared by using a glass material
3 conforming to EIAJ (Electronic Industries Association of Japan) LOF-03, and
4 in each of the plurality of glass members, the maximum thickness is no more than
5 substantially five times the minimum thickness.

1 3. (Original) The glass bulb of claim 1,
2 wherein at least one of the plurality of glass members is designed to be physically
3 strengthened.

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1 4. (Original) The glass bulb of claim 3,
2 wherein the physical strengthening is performed by air-cooling a glass member
3 molded by pressing, heating the glass member again to a temperature which is 20-40C° lower
4 than an annealing point, and cooling the glass member slowly.

1 5. (Original) The glass bulb of claim 1,
2 wherein the plurality of glass members are joined by sealing with a glass frit so
3 that inside of the glass bulb is kept in a vacuum state.

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1 6. (Original) The glass bulb of claim 1,
2 wherein the funnel unit is formed from two glass members, which are (a) the first
3 glass member to be joined to the panel unit and (b) the second glass member to be joined to the
4 neck unit, the panel unit and the neck unit being made of a glass material, and

5 wherein the first glass member and the second glass member are joined at a
6 position including an inflection point on a periphery of the funnel unit on a supposed plane
7 substantially perpendicular to a tube axial direction.

1 7. (Original) The glass bulb of claim 6.
2 wherein the first glass member has substantially a same shape as a shape in which
3 a certain portion is removed from the panel unit.

1 8. (Original) The glass bulb of claim 1,
2 wherein the first glass member which is to be joined to the panel unit is formed in
3 one piece and designed to be physically strengthened, the panel unit being made of a glass
4 material.

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1 9. (Original) The glass bulb of claim 1,
2 wherein a lead terminal is (a) connected to an electrode formed on an inner
3 surface of the funnel unit and (b) extended to outside of the glass bulb through a sealed portion,
4 the sealed portion being where at least two out of the plurality of glass members are joined.

1 10. (Original) The glass bulb of claim 1,
2 wherein a panel unit glass member that forms the panel unit is designed to be
3 physically strengthened.

4 11-18. (Cancelled)